													: 600 t
			ccc Pro										48
			gat Asp 20										96
			gac Asp										144
			aag Lys										192
			agg Arg										240
			tgt Cys										288
			ata Ile 100										336
		_	aag Lys			_	_	_					384
			ttg Leu										432
			gac Asp	_	-								480
			aga Arg										528
			gca Ala 180										576
_	_		aca Thr	_	_				_	_			624

FIG. 1A

																	The Contract of the Contract o
•	Tyr	ctc Leu 210	agc Ser	tgc Cys	aag Lys	gag Glu	ctc Leu 215	agc Ser	cgc Arg	atg Met	ggc Gly	ccc Pro 220	tgc Cys	agt Ser	ttt Phe	gca Ala	672
	gag Glu 225	ctg Leu	atc Ile	tcc Ser	aaa Lys	gac Asp 230	tgg Trp	cct Pro	ga a Glu	ttg Leu	cag Gln 235	gat Asp	gac Asp	att Ile	cca Pro	agc Ser 240	720
	atc Ile	cta Leu	gcc Ala	caa Gln	gca Ala 245	cag Gln	aga Arg	atc Ile	ctg Leu	ttc Phe 250	gtg Val	gtc Val	gat Asp	ggc Gly	ctt Leu 255	gat Asp	768
	gag Glu	ctg Leu	aaa Lys	gtc Val 260	cca Pro	cct Pro	ggg ggg	gcg Ala	ctg Leu 265	atc Ile	cag Gln	gac Asp	atc Ile	tgc Cys 270	gly gg g	gac Asp	816
	tgg Trp	gag Glu	aag Lys 275	aag Lys	aag Lys	ccg Pro	gtg Val	ccc Pro 280	gtc Val	ctc Leu	ctg Leu	ggg Gly	agt Ser 285	ttg Leu	ctg Leu	aag Lys	864
	agg Arg	aag Lys 290	atg Met	tta Leu	ccc Pro	agg Arg	gca Ala 2 95	gcc Ala	ttg Leu	ctg Leu	gtc Val	acc Thr 300	acg Thr	cgg Arg	ccc Pro	agg Arg	912
	gca Ala 305	ctg Leu	agg Arg	gac Asp	ctc Leu	cag Gln 310	ctc Leu	ctg Leu	gcg Ala	cag Gln	cag Gln 315	ccg Pro	atc Ile	tac Tyr	ata Ile	agg Arg 320	960
	gtg Val	gag Glu	ggc	ttc Phe	ctg Leu 325	Glu	gag Glu	gac Asp	agg Arg	agg Arg 330	gcc Ala	tat Tyr	ttc Phe	ctg Leu	aga Arg 335		1008
	ttt Phe	gga Gly	gac Asp	gag Glu 340	Asp	caa Gln	gcc Ala	atg Met	cgt Arg 345	gcc	ttt Phe	gag Glu	cta Leu	atg Met 350	Arg	agc Ser	1056
	aac Asn	gcg Ala	gcc Ala 355	Leu	ttc Phe	cag Gln	ctg Leu	ggc Gly 360	ser,	gcc Ala	ccc Pro	gcg Ala	gtg Val 365	Cys	tgg Trp	att Ile	1104
	gtg Val	tgc Cys 370	Thr	act Thr	ctg Leu	aag Lys	ctg Leu 375	Glr	g atg n Met	gag Glu	aag Lys	999 Gly 380	Glu	gac Asp	ccg Pro	ccg Pro	1152
	gtt Val 385	Pro	gca Ala	ı ggg ı Gly	g cgc	aca Thr	Ala	gcg Ala	g ggg	r cgc Arg	gct Ala 395	Ala	gac Asp	gct Ala	gag Glu	cct Pro 400	1
	cct Pro	ggc Gly	cgo Arg	g gca	ggg Gly 405	Let	tgg Trp	gcg Ala	g cag a Glr	atg Met 410	Ser	gtg Val	tto Phe	cac His	cga Arg 415	ı gag g Glu	1248

FIG. 1B

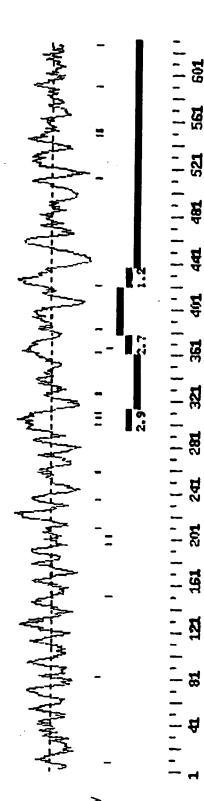
																	2 11
9 A	rab	ctg Leu	gaa Glu	agg Arg 420	ctc Leu	Gly 999	gtg Val	cag Gln	gag Glu 425	tcc Ser	gac Asp	ctc Leu	cgt Arg	ctg Leu 430	ttc Phe	ctg Leu	71
P	lac Ysb	gga Gly	gac Asp 435	atc Ile	ctc Leu	cgc Arg	cag Gln	gac Asp 440	aga Arg	gtc Val	tcc Ser	aaa Lys	ggc Gly 445	tgc Cys	tac Tyr	tcc Ser	1344
ţ	tc Phe	atc Ile 450	cac His	ctc Leu	agc Ser	ttc Phe	cag Gln 455	cag Gln	ttt Phe	ctc Leu	act Thr	gcc Ala 460	ctg Leu	ttc Phe	tac Tyr	gcc Ala	1392
1	ctg Leu 465	gag Glu	aag Lys	gag Glu	gag Glu	gag Glu 470	ga g Glu	gac Asp	agg Arg	gac Asp	ggc Gly 475	cac His	gcc Ala	tgg Trp	gac Asp	att Ile 480	1440
(ggg Gly	gac Asp	gta Val	cag Gln	aag Lys 485	ctg Leu	ctt Leu	tcc Ser	gga Gly	gaa Glu 490	gaa Glu	aga Arg	ctc Leu	aag Lys	aac Asn 495	ccc Pro	1488
	gac Asp	ctg Leu	att Ile	caa Gln 500	Val	gga Gly	cac His	ttc Phe	tta Leu 505	Phe	ggc	ctc Leu	gct Ala	aac Asn 510	gag Glu	aag Lys	1536
	aga Arg	gcc Ala	aag Lys 515	gag Glu	ttg Leu	gag Glu	gcc Ala	act Thr 520	Phe	ggc Gly	tgc Cys	cgg Arg	atg Met 525	Ser	ccg Pro	gac Asp	1584
	atc Ile	aaa Lys 530	Glr	g gaa 1 Glu	ttg Leu	ctg Leu	caa Gln 535	Cys	: aaa Lys	gca Ala	cat His	ctt Leu 540	ı His	gca Ala	aat Asn	aag Lys	1632
	ccc Pro	Leu	tco Sei	gtg Val	Thr	Asp	Leu	Lys	g gag Glu	. Val	. Leu	ιGl	tgc Cys	ctg Leu	tat Tyr	gag Glu 560	
	tct Ser	cag Glr	g gaq 1 Gl	g gag ı Glu	g gag 1 Glu 565	ı Lev	g gcg 1 Ala	g aag a Lys	g gtg s Val	g gtg L Val	[Va]	g gco L Ala	e eeg a Pro	tto Phe	aag Lys	Glu	1728
	att Ile	tct Sei	at:	t cade His	s Le	g aca i Thi	a aat c Ası	act n Thi	t tct r Sei 589	c Gli	a gtg ı Val	g ato	g cat t His	tgt Cys 590	s Ser	tto Phe	1776
	ago Sei	c cto	g aa u Ly 59	g cat s Hi: 5	t tg: s Cy:	t caa	a gad n Asj	c tt p Le	u Gli	g aaa n Lys	a cto	c tc: u Se:	a cto r Leo 609	ı Glı	g gta n Val	a gca L Ala	1824 1
·. ·	aaq	g gg s Gl	y Va	g tt l Ph	c ct e Le	g gag u Gli	g aa u As: 61	n Ty	c ate	g gat t As	t tt: p Pho	t ga e Gl 62	u Lei	g gad u Asj	ati p Ile	t gaa e Glu	a 1872 1

FIG. 1C

																	٠٠.
	ttt Phe 625	gaa Glu	agc Ser	tca Ser	aac Asn	agc Ser 630	aac Asn	ctc Leu	Lys	ttt Phe	ctg Leu 635	gaa Glu	gtg Val	aaa Lys	caa Gln	agc Ser 640	1920
	ttc Phe	ctg Leu	agt Ser	ga c Asp	tct Ser 645	tct Ser	gtg Val	cgg Arg	att Ile	ctt Leu 650	tgt Cys	gac Asp	cac His	gta Val	acc Thr 655	cgt Arg	1968
	agc Ser	acc Thr	tgt Cys	cat His 660	ctg Leu	cag Gln	aaa Lys	gtg Val	gag Glu 6 65	att Ile	aaa Lys	aac Asn	gtc Val	acc Thr 670	cct Pro	gac Asp	2016
	acc Thr	gcg Ala	tac Tyr 675	cgg Arg	gac Asp	ttc Phe	tgt Cys	ctt Leu 680	gct Ala	ttc Phe	att Ile	Gly 99 9	aag Lys 685	aag Lys	acc Thr	ctc Leu	2064
	acg Thr	cac His 690	ctg Leu	acc Thr	ctg Leu	gca Ala	ggg Gly 695	cac His	atc Ile	gag Glu	tgg Trp	gaa Glu 700	cgc Arg	acg Thr	atg Met	atg Met	2112
	ctg Leu 705	atg Met	ctg Leu	tgt Cys	gac Asp	ctg Leu 710	ctc Leu	aga Arg	aat Asn	cat His	aaa Lys 715	tgc Cys	aac Asn	ctg Leu	cag Gln	tac Tyr 720	2160
	ctg Leu	agg Arg	ttg Leu	gga Gly	ggt Gly 725	cac His	tgt Cys	gcc Ala	acc Thr	ccg Pro 730	gag Glu	cag Gln	tgg Trp	gct Ala	gaa Glu 735	ttc Phe	2208
	ttc Phe	tat Tyr	gtc Val	ctc Leu 740	Lys	gcc Ala	aac Asn	cag Gln	tcc Ser 745	Leu	aag Lys	cac His	ctg Leu	cgt Arg 750	Leu	tca Ser	2256
	gcc Ala	aat Asn	gtg Val 755	ctc	ctg Leu	gat Asp	gag Glu	ggt Gly 760	Ala	atg Met	ttg Leu	ctg Leu	tac Tyr 765	aag Lys	acc Thr	atg Met	2304
	aca Thr	cgc Arg 770	Pro	aaa Lys	cac His	ttc Phe	ctg Leu 775	Gln	atg Met	ttg Leu	tcg Ser	ttg Leu 780	Glu	aac Asn	tgt Cys	egt Arg	2352
	ctt Leu 785	Thr	gaa Glu	gcc Ala	agt Ser	tgc Cys 790	Lys	gac Asp	ctt Leu	gct Ala	gct Ala 795	Val	ttg Leu	gtt Val	gtc Val	agc Ser 800	2400
	aag Lys	aag Lys	cto Lev	g aca 1 Thr	cac His	Leu	tgo Cys	ttg Lev	g gcc ı Ala	aag Lys 810	Asn	ccc Pro	att Ile	ggg Gly	gat Asp 815	aca Thr	2448
-				g ttt s Phe													2464
	Jry	, 44	. —;·	820				F	IG	. 1	D						

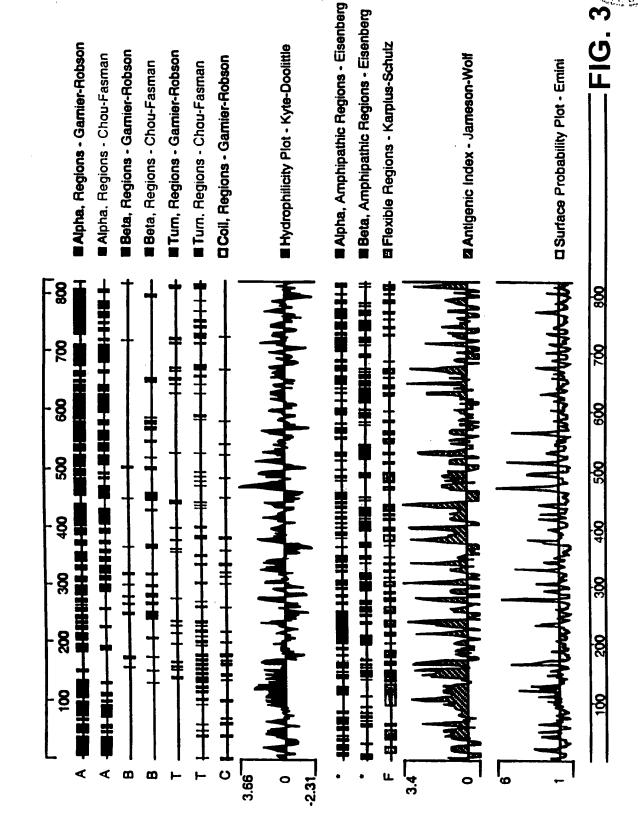


of high men must be a fall for the forthand for for the form the most transformation to the forthand the fort



विधा वना वक्षा 521

Cys Nout TM TM TM



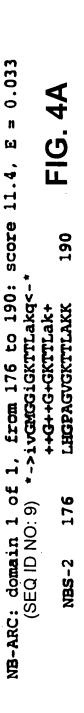


FIG. 4B = 0.57770 回 IRR_RI_2: domain 1 of 2, from 743 to 770: score 13.4, (SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-* NOSLKHLRLSANVLLDEGAMLLYKTMTR n+sL+ L+Ls N 1 deGa+ L ++ + NBS-2 743

FIG. 4C 0.12 11 199 ы LRR_RI_2: domain 2 of 2, from 772 to 799: score 18.2, (SEQ ID NO:10) *->npstretdtsnNklgdeGarataeatks<-* KHFLQMLSLENCRLTEASCKDLAAVLVV ++ L+ L+L+n+ 1+++ ++ La++L 772 NBS-2

1.2 623 Ы IRR RI 2: domain 1 of 1, from 596 to 623: score 11.0, *->ppslreldlennklgdegaralasalks<-* meslreluifdndingiserilskaleh r L++al++ -- BLTEL++ +N+1 296 (SEQ ID NO:10) NBS-3

FIG. 8

																·2.
atg Met 1	gca Ala	gaa Glu	tcg Ser	gat Asp 5	tct Ser	act Thr	gac Asp	ttt Phe	gac Asp 10	ctg Leu	ctg Leu	tgg Trp	tat Tyr	cta Leu 15	gag [`]	48
aat Asn	ctc Leu	agt Ser	gac Asp 20	aag Lys	gaa Glu	ttt Phe	cag Gln	agt Ser 25	ttt Phe	aag Lys	aag Lys	tat Tyr	ctg Leu 30	gca Ala	cgc Arg	96
aag Lys	att Ile	ctt Leu 35	gat Asp	ttc Phe	aaa Lys	ctg Leu	cca Pro 40	cag Gln	ttt Phe	cca Pro	ctg Leu	ata Ile 45	cag Gln	atg Met	aca Thr	144
aaa Lys	gaa Glu 50	gaa Glu	ctg Leu	gct Ala	aac Asn	gtg Val 55	ttg Leu	cca Pro	atc Ile	tct Ser	tat Tyr 60	gag Glu	gga Gly	cag Gln	tat Tyr	192
ata Ile 65	tgg Trp	aat Asn	atg Met	ctc Leu	ttc Phe 70	agc Ser	ata Ile	ttt Phe	tca Ser	atg Met 75	atg Met	cgt Arg	aag Lys	gaa Glu	gat Asp 80	240
			aag Lys													288
			tat Tyr 100													336
gtg Val	ttc Phe	ctg Leu 115	atg Met	gga Gly	gag Glu	aga Arg	gca Ala 120	tct Ser	gga Gly	aaa Lys	act Thr	att Ile 125	gtt Val	ata Ile	aat Asn	384
		Val	ttg Leu				Lys									
tcg Ser 145	Tyr	gtc Val	gtt Val	cac His	ctc Leu 150	Thr	gct Ala	cac His	gaa Glu	ata Ile 155	Asn	cag Gln	atg Met	acc Thr	aac Asn 160	
agc Ser	agc Ser	ttg Leu	gct Ala	gag Glu 165	Leu	atc Ile	gcc Ala	aag Lys	gac Asp 170	Trp	cct Pro	gac Asp	ggc	cag Gln 175	Ala	528
ccc	att	gca Ala	gac Asp 180	Ile	ctg Leu	tct Ser	gat Asp	ccc Pro 185	Lys	aaa Lys	ctc Leu	ctt Leu	ttc Phe 190	Ile	ctc Leu	576
gag Glu	gac . Asp	tto	gac Asp	aac Asn	ata Ile	aga Arg	ttc Phe	Glu	tta Leu	aat Asn	gtc Val	aat Asn 205	Glu	agt Ser	gct Ala	624

FIG. 5A

										•
								ctg Leu		672
S								atc Ile		720
								gag Glu 255		768
								at a Ile		816
								ct c Leu		864
								gcc Ala		912
L								aag Lys		960
								gcc Ala 335		1008
							_	aat Asn	_	1056
								gga Gly		1104
								tgt Cys		1152
G								att Ile		1200
								ttg Leu 415		1248

FIG. 5B

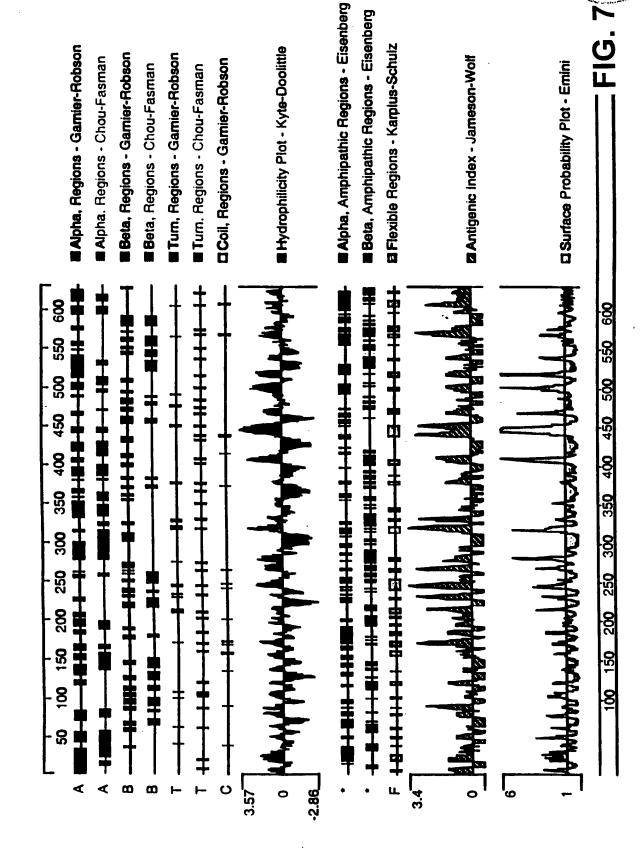
															•	41
_	_			_		_		_		_	_	-	-		aac.; Asn	1296
							_		tat Tyr				_	_		1344
		_							ttc Phe							1392
_			_	_					tcc Ser				_		_	1440
									gtg Val 490						_	1488
					-	_	_		cat His	_		_			_	1536
					_	_	_		gtg Val	_	_			_	_	1584
									tca Ser							1632
									cac His							1680
_	_	_	-						gag Glu 570							1728
									tgg Trp							1776
									ctg Leu							1824
									tct Ser							1872

FIG. 5C

agc tgt aaa ctt cgc aca ctc aa Ser Cys Lys Leu Arg Thr Leu 625 630

1895

FIG. 5D



																had the second
_	_	_	_		_				_			_		cct Pro 15		48
_		_			_				_	_	_			gaa Glu	_	, 96
_	_			-					_	_	-	_	_	acg Thr		144
_	_				_		_		_			_	_	atg Met	_	192
_	_	_			_			_			_			ttc Phe		240
	-				_	_						_	_	gaa Glu 95		288
		-	_	_			_	_			_		_	gcc Ala		336
											-			att Ile	_	384
			_				Ser			_		Glu	_	ttg Leu	-	432
														acc Thr		480
				_					_	_		_	-	acc Thr 175		528
_		_		Lys					_	_		_	_	tca Ser		576
														gac Asp		624

FIG. 9A

																- Wet − ENT + - Note:
	_			_	_			_	_		_	_	_	gag Glu		672
	_	_	_		_			_						tgc Cys	-	720
_		_		_			_	-		_	_	_	_	ccg Pro 255	_	768
				_		_				_				agt Ser	_	816
	_						_				_		_	gat Asp	_	864
_	_	-	_							-		_	_	ctg L eu	_	912
	-					_			_				_	gac Asp		960
					_									gag Glu 335		1008
				Lys	Ile		Asp	Cys	Gly					ttc Phe		1056
		-		-				-	_	_				cta Leu		1104
_		_	_	_						_				atg Met	_	1152
_		_			_	_		_		_	_			act Thr		1200
	-	_											_	aga Arg 415	_	1248

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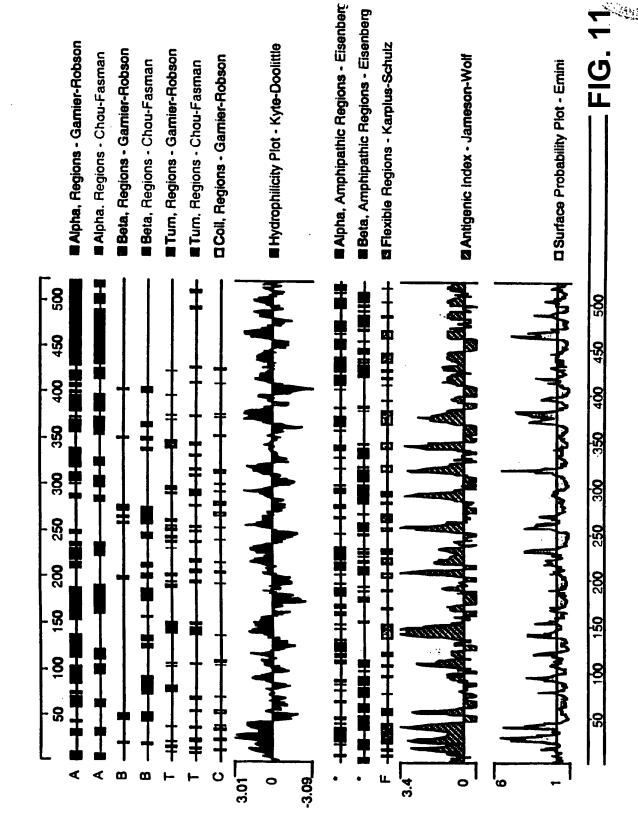
FIG. 9B

	ctg Leu	gaa Glu	gat Asp	act Thr 420	ttg Leu	cat His	tgt Cys	aa a Lys	ata Ile 425	tct Ser	ccc Pro	agg Arg	gta Val	atg Met 430	gag Glu	gaa Glu	1296
	tta Leu	tta Leu	aag Lys 435	tgg Trp	gga Gly	gaa Glu	gag Glu	tta Leu 440	ggt Gly	aag Lys	gct Ala	gaa Glu	agt Ser 445	gcc Ala	tct Ser	ctc Leu	1344
	caa Gln	ttt Phe 450	cac His	att Ile	cta Leu	cga Arg	ctt Leu 455	ttt Phe	cac His	tgc Cys	cta Leu	cac His 460	gag Glu	tcc Ser	cag Gln	gag Glu	1392
·	gaa Glu 465	gac Asp	ttc Phe	aca Thr	aag Lys	aag Lys 470	atg Met	ttg Leu	ggt Gly	cgt Arg	atc Ile 475	ttt Phe	gaa Glu	gtt Val	gac Asp	ctt Leu 480	1440
	aat Asn	att Ile	ttg Leu	gag Glu	gac Asp 485	gaa Glu	gaa Glu	ctc Leu	caa Gln	gct Ala 490	tct Ser	tca Ser	ttt Phe	tgc Cys	cta Leu 495	_	1488
. 	cac His	tgt Cys	aa a Lys	agg Arg 500	tta Leu	aat Asn	aag Lys	cta Leu	agg Arg 505	ctt Leu	tct Ser	gtt Val	agc Ser	agt Ser 510	cac His	atc Ile	1536
			agg Arg 515									G.	9C	,			1566

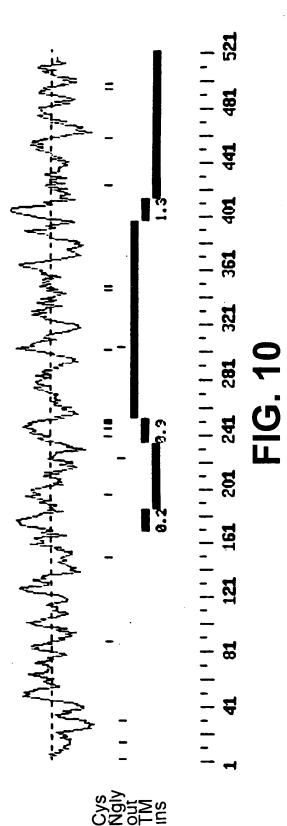
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NB-ARC: domain 1 of 1, from 50 to 79: score 9.4, E = 0.12 (SEQ ID NO:11) *->iv@MGGiGKTTLakqiyndes..qevqrhP<-* LVGRAGVGKTTLAMQAMLHWANGVLFQQRP +vG++G+GKTTLa q+ 20

FIG. 12

	r Ar				r Se			al Th				u Ty	r Phe	
			gtc Val 20											97
			gaa Glu											145
			att Ile											193
	_	_	aac Asn	_			 _							241
			aga Arg											289
			aga Arg 100											337
			ccg Pro											385
_	_		ggc Gly			-	_	_	_					433
			cgg Arg											481
_	_		ccg Pro											529
-	_		ctc Leu 180			_	 _			_		_		577
			aac Asn											625

FIG. 13A

																20
a a a Lys	gac Asp 210	ccg Pro	aaa Lys	aga Arg	gcc Ala	atg Met 215	gaa Glu	gcc Ala	ttc Phe	aat Asn	ctt Leu 220	gta Val	aga Arg	gaa Glu	agt Ser	673 7/19
	ı cag ı Gln															721
	acc Thr															769
	c tgc Cys															817
	c aca E Thr															865
	g aag u Lys 290	Ala														913
	t gag e Glu 5										Gly					961
	c ato				Leu					Leu					Glu	1009
	t gag g Glu			Tyr										Phe		1057
	c gcc a Ala		Phe					Ser					Pro			1105
	t gtg a Val	Arg					Leu					Phe				1153
ag Ar 38	g aga g Arg	a gca g Ala	cat His	tgg Trp	att Ile 390	Phe	ttg Lev	, 999 , Gly	tgt Cys	ttt Phe	Leu	act Thr	ggc Gly	ctt Leu	tta Leu 400	1201
aa As	t aaa n Lys	a aag E Lys	g gaa s Glu	caa Gln 405	Glu	aaa Lys	ctg Lev	gat Asp	gcg Ala	Phe	ttt Phe	ggc Gly	tto Phe	caa Gln 415	Leu	1249

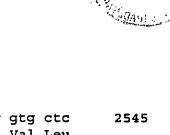
FIG. 13B

	caa Gln															1297
	cgt Arg															1345
	ctc Leu 450															1393
	ctc Leu															1441
	tct Ser															1489
ttt Phe	tcc Ser	gtt Val	caa Gln 500	aat Asn	gtc Val	ttt Phe	aag Lys	aaa Lys 505	gag Glu	gat Asp	gaa Glu	ca c His	agc Ser 510	tct Ser	acg Thr	1537
	gat Asp															1585
acc Thr	agc Ser 530	Gly 999	cac His	ctc Leu	aga Arg	gag Glu 535	ctc Leu	cag Gln	gtg Val	cag Gln	gac Asp 540	agc Ser	acc Thr	ctc Leu	agc Ser	1633
	tcg Ser															1681
cgc Arg	ctt Leu	cag Gln	aag Lys	ctt Leu 565	gga Gly	ata Ile	aat Asn	aac Asn	gtt Val 570	tcc Ser	ttt Phe	tct Ser	ggc Gly	cag Gln 575	agt Ser	1729
gtt Val	ctg Leu	ctc Leu	ttt Phe 580	gag Gļu	gtg Val	ctc Leu	ttt Phe	tat Tyr 585	cag Gln	cca Pro	gac Asp	ttg Leu	aaa Lys 590	tac Tyr	ctg Leu	1777
	ttc Phe															1825
gat Asp	gcc Ala 610	ttg Leu	aac Asn	tac Tyr	cca Pro	gca Ala 615	ggc Gly	aac Asn	gtc Val	aaa Lys	gag Glu 620	cta Leu	gcg Ala	ctg Leu	gta Val	1873

FIG. 13C

												gct Ala				1921 (0,4)
												tgc Cys				1969
												agc Ser				2017
												agc Ser 685				2065
												agc Ser				2113
												ctg Leu			ctc Leu 720	2161
												tca Ser				2209
									Cys			ctc Leu				2257
								Ile				999 Gly 765				2305
		Asp					Leu					ctg Leu				2353
	Cys										Cys	ggg				2401
acc Thr	tgc Cys	tgt Cys	aag Lys	gat Asp 805	Leu	gcg Ala	tct Ser	gtt Val	ctc Leu 810	Thr	tgc Cys	agt Ser	aag Lys	acc Thr 815	Leu	2449
				Leu					Leu			aca Thr		Val		2497

FIG. 13D



gta ctc tgt gag gcc ctg aga cac cca gag tgt gcc ctg cag gtg ctc

Val Leu Cys Glu Ala Leu Arg His Pro Glu Cys Ala Leu Gln Val Leu

835

840

845

2575

ggg gtt gtt gca gga gta aga acc aag cag Gly Val Val Ala Gly Val Arg Thr Lys Gln 850 855

FIG. 13E

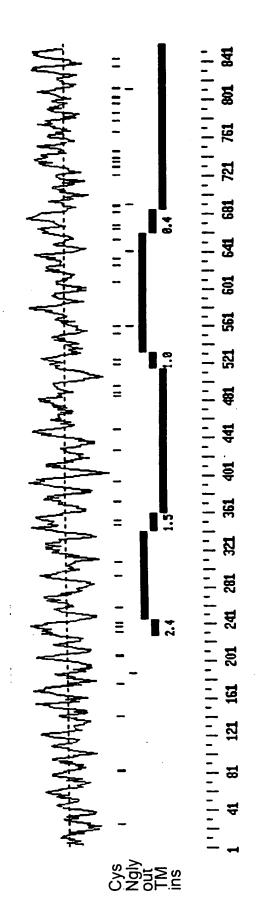
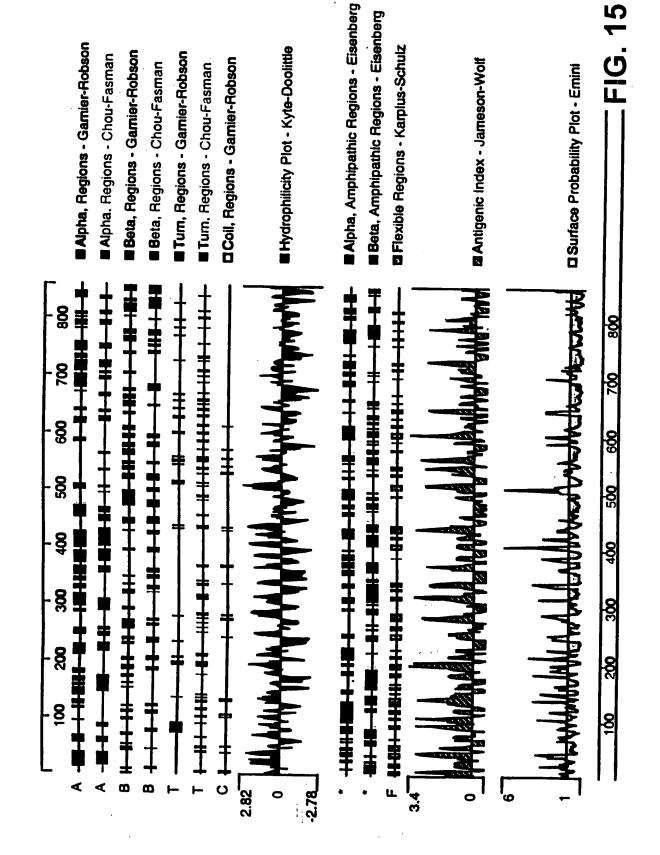


FIG. 14



```
(SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                                                           FIG. 16A
                       + +LreL++++ +1 ++
                                            ++-L++
        NBS-5
                530
                      SGHLRELQVQDSTLSESTFVTWCNQLRH
                                                       557
LRR_RI_2: domain 2 of 8, from 615 to 642: score 5.2, E = 8.4
      (SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                         + +eL L n++1 + + +La +L+
                                                           FIG. 16B
        NBS-5
                615
                      ACNVKELALVNCHLSPIDCEVLAGLLTN
LRR_RI_2: domain 3 of 8, from 643 to 669: score 9.3, E = 2.2
      (SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                                                           FIG. 16C
                      n++L L++s+N 1 d G+ L+eaL s
        NBS-5
               643
                      NKKLTYLNVSCNQL-DTGVPLLCEALCS
                                                       669
LRR_RI_2: domain 4 of 8, from 699 to 726: score 32.8, E = 7.9e-06
       (SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                                                          FIG. 16D
                      n+s r LdLs N 1 deG + L+ealk+
       NBS-5
               699
                      NKSVRYLDLSANVLKDEGLKTLCEALKH
LRR_RI_2: domain 5 of 8, from 728 to 755: score 10.0, E = 1.8
      (SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                       ++L L L + ++++G+ La+aL s
                                                          FIG. 16E
       NBS-5
               728
                      DCCLDSLCLVKCFITAAGCEDLASALIS
LRR_RI_2: domain 6 of 8, from 756 to 783: score 30.9, E = 3e-05
      (SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                      n++L+ L++++N +gd G++ L+ aL++
                                                      <sub>783</sub> FIG. 16F
       NBS-5
               756
                      NONLKILQIGCNEIGDVGVQLLCRALTH
LRR_RI_2: domain 7 of 8, from 785 to 812: score 8.0, E = 3.3
      (SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                                                          FIG. 16G
                       ++L+ L L+ ++l+
                                      ++ La++L+
       NBS-5
               785
                     DCRLEILGLEECGLTSTCCKDLASVLTC
                                                      812
LRR_RI_2: domain 8 of 8, from 813 to 840: score 17.6, E = 0.14
      (SEQ ID NO:10) *->npsLreLdLsnNklgdeGaraLaeaLks<-*
                                                     840 FIG. 16H
                     +++L+ L+L N+1 G+ +L+ aL++
       NBS-5
               813
                     SKILQQLNLTLNTLDHTGVVVLCEALRH
```

LRR_RI_2: domain 1 of 8, from 530 to 557: score 6.4, E = 5.6

atg	aca	tcg	CCC	cag	cta	gag Glu	tgg	act	ctg	cag	acc	ctt	ctg	gag	cag		58 06
ctg Leu	aac Asn	gag Glu	gat Asp 20	gaa Glu	tta Leu	aag Lys	agt Ser	ttc Phe 25	aaa Lys	tcc Ser	ctt Leu	tta Leu	tgg Trp 30	gct Ala	ttt Phe	1	.54
ccc Pro	ctc Leu	gaa Glu 35	gac Asp	gtg Val	cta Leu	cag Gln	aag Lys 40	acc Thr	cca Pro	tgg Trp	tct Ser	gag Glu 45	gtg Val	gaa Glu	gag Glu	. 2	02
gct Ala	gat Asp 50	ggc Gly	aag Lys	aaa Lys	ctg Leu	gca Ala 55	gaa Glu	att Ile	ctg Leu	gtc Val	aac Asn 60	acc Thr	tcc Ser	tca Ser	gaa Glu	2	50
aat Asn 65	tgg Trp	ata Ile	agg Arg	aat Asn	gcg Ala 70	act Thr	gtg Val	aac Asn	atc Ile	ttg Leu 75	gaa Glu	gag Glu	atg Met	aat Asn	ctc Leu 80	2	98
acg Thr	gaa Glu	ttg Leu	tgt Cys	aag Lys 85	atg Met	gca Ala	aag Lys	gct Ala	gag Glu 90	atg Met	atg Met	gag Glu	gac Asp	gga Gly 95	cag Gln	3	46
gtg Val	caa Gln	gaa Glu	ata Ile 100	gat Asp	aat Asn	cct Pro	gag Glu	ctg Leu 105	gga Gly	gat Asp	gca Ala	gaa Glu	gaa Glu 110	gac Asp	tcg Ser	3	94
gag Glu	tta Leu	gca Ala 115	aag Lys	cca Pro	ggt Gly	gaa Glu	aag Lys 120	gaa Glu	gga Gly	tgg Trp	aga Arg	aat Asn 125	tca Ser	atg Met	gag Glu	4	42
a aa Lys	cag Gln 130	tct Ser	ttg Leu	gtc Val	tgg Trp	aag Lys 135	aac Asn	acc Thr	ttt Phe	tgg Trp	caa Gln 140	gga Gly	gac Asp	att Ile	gac Asp	4	90
aat Asn 145	ttc Phe	cat His	gac Asp	gac Asp	gtc Val 150	act Thr	ctg Leu	aga Arg	aac Asn	caa Gln 155	cgg Arg	ttc Phe	att Ile	cca Pro	ttc Phe 160	5	38
ttg Leu	aat Asn	ccc Pro	aga Arg	aca Thr 165.	Pro	agg Arg	aag Lys	ctà Leu	aca Thr 170	cct Pro	tac Tyr	acg Thr	gtg Val	gtg Val 175	ctg Leu	5	86
						gly aaa										6	34
						aac Asn										6	82
						ctc Leu 215										7	30

FIG. 17A

gag ctg atc tcc aaa gac tgg cct gaa ttg cag gat gac att cca agc Glu Leu Ile Ser Lys Asp Trp Pro Glu Leu Gln Asp Asp Ile Pro Ser 235 240 atc cta gcc caa gca cag aga atc ctg ttc gtg gtc gat ggc ctt gat Ile Leu Ala Gln Ala Gln Arg Ile Leu Phe Val Val Asp Gly Leu Asp 245 250 255 gag ctg aaa gtc cca cct ggg gcg ctg atc cag gac atc tgc ggg gac Glu Leu Lys Val Pro Pro Gly Ala Leu Ile Gln Asp Ile Cys Gly Asp 260 265 270 tgg gag aag aag aag aag ccg gtg ccc gtc ctc ctg ggg agt ttg ctg aag Trp Glu Lys Lys Lys Pro Val Pro Val Leu Leu Gly Ser Leu Leu Lys	77.8 826 874
Ile Leu Ala Gln Ala Gln Arg Ile Leu Phe Val Val Asp Gly Leu Asp 245 250 255 gag ctg aaa gtc cca cct ggg gcg ctg atc cag gac atc tgc ggg gac Glu Leu Lys Val Pro Pro Gly Ala Leu Ile Gln Asp Ile Cys Gly Asp 260 265 270 tgg gag aag aag aag ccg gtg ccc gtc ctc ctg ggg agt ttg ctg aag	
Glu Leu Lys Val Pro Pro Gly Ala Leu Ile Gln Asp Ile Cys Gly Asp 260 265 270 tgg gag aag aag aag ccg gtg ccc gtc ctc ctg ggg agt ttg ctg aag	874
275 280 285	922
agg aag atg tta ccc agg gca gcc ttg ctg gtc acc acg cgg ccc agg Arg Lys Met Leu Pro Arg Ala Ala Leu Leu Val Thr Thr Arg Pro Arg 290 295 300	970
gca ctg agg gac ctc cag ctc ctg gcg cag cag ccg atc tac gta agg Ala Leu Arg Asp Leu Gln Leu Leu Ala Gln Gln Pro Ile Tyr Val Arg 305 310 315 320	1018
gtg gag ggc ttc ctg gag gag gac agg agg gcc tat ttc ctg aga cac Val Glu Gly Phe Leu Glu Glu Asp Arg Arg Ala Tyr Phe Leu Arg His 325 330 335	1066
ttt gga gac gag gac caa gcc atg cgt gcc ttt gag cta atg agg agc Phe Gly Asp Glu Asp Gln Ala Met Arg Ala Phe Glu Leu Met Arg Ser 340 345 350	1114
aac gcg gcc ctg ttc cag ctg ggc tcg gcc ccc gcg gtg tgc tgg att Asn Ala Ala Leu Phe Gln Leu Gly Ser Ala Pro Ala Val Cys Trp Ile 355 360 365	1162
gtg tgc acg act ctg aag ctg cag atg gag aag ggg gag gac ccg gtc Val Cys Thr Thr Leu Lys Leu Gln Met Glu Lys Gly Glu Asp Pro Val 370 375 380	1210
ccc acc tgc ctc acc cgc acg ggg ctg ttc ctg cgt ttc ctc tgc agcPro Thr Cys Leu Thr Arg Thr Gly Leu Phe Leu Arg Phe Leu Cys Ser385390	1258
cgg ttc ccg cag ggc gca cag ctg cgg ggc gcg ctg cgg acg ctg agc Arg Phe Pro Gln Gly Ala Gln Leu Arg Gly Ala Leu Arg Thr Leu Ser 405 410 415	1306
ctc ctg gcc gcg cag ggc ctg tgg gcg cag atg tcc gtg ttc cac cga Leu Leu Ala Ala Gln Gly Leu Trp Ala Gln Met Ser Val Phe His Arg 420 425 430	1354
gag gac ctg gaa agg ctc ggg gtg cag gag tcc gac ctc cgt ctg ttc Glu Asp Leu Glu Arg Leu Gly Val Gln Glu Ser Asp Leu Arg Leu Phe 435 440 445	1402

FIG. 17B

																٠.
ctg Leu	gac Asp 450	gga Gly	gac Asp	atc Ile	ctc Leu	cgc Arg 455	cag Gln	gac Asp	aga Arg	gtc Val	tcc Ser 460	aaa Lys	ggc Gly	tgc Cys	tac Tyr	1450
											act Thr					1498
											ggc Gly					1546
											gaa Glu					1594
											ggc Gly					1642
											tgc Cys 540					1690
											cat His					1738
											ttg Leu					1786
											gtg Val					1834
											gtg Val					1882
											ctc Leu 620					1930
											ttt Phe					1978
											aac Asn					2026
											tgc Cys					2074

FIG. 17C

tca Ser	aac Asn	agc Ser 675	aac Asn	ctc Leu	aag Lys	ttt Phe	ctg Leu 680	gaa Glu	gtg Val	aaa Lys	caa Gln	agc Ser 685	ttc Phe	ctg Leu	agt Ser	2122
gac Asp	tct Ser 690	tct Ser	gtg Val	cgg Arg	att Ile	ctt Leu 695	tgt Cys	gac Asp	cac His	gta Val	acc Thr 700	cgt Arg	agc Ser	acc Thr	tgt Cys	2170
cat His 705	ctg Leu	cag Gln	aaa Lys	gtg Val	gag Glu 710	att Ile	aaa Lys	aac Asn	gtc Val	acc Thr 715	cct Pro	gac Asp	acc Thr	gcg Ala	tac Tyr 720	2218
cgg Arg	gac Asp	ttc Phe	tgt Cys	ctt Leu 725	gct Ala	ttc Phe	att Ile	gg g Gly	aag Lys 730	aag Lys	acc Thr	ctc Leu	acg Thr	cac His 735	ctg Leu	2266
acc Thr	ctg Leu	gca Ala	999 Gly 740	cac His	atc Ile	gag Glu	tgg Trp	gaa Glu 745	cgc Arg	acg Thr	atg Met	atg Met	ctg Leu 750	atg Met	ctg Leu	2314
tgt Cys	gac Asp	ctg Leu 755	Leu	aga Arg	aat Asn	cat His	aaa Lys 760	Cys	aac Asn	ctg Leu	cag Gln	tac Tyr 765	ctg Leu	agg Arg	ttg Leu	2362
gga Gly	ggt Gly 770	His	tgt Cys	gcc Ala	acc Thr	ccg Pro 775	gag Glu	cag Gln	tgg Trp	gct Ala	gaa Glu 780	ttc Phe	ttc Phe	tat Tyr	gtc Val	2410
ctc Leu 785	aaa Lys	gcc Ala	aac Asn	cag Gln	tcc Ser 790	ctg Leu	aag Lys	cac His	ctg Leu	cgt Arg 795	ctc Leu	tca Ser	gcc Ala	aat Asn	gtg Val 800	2458
ctc Leu	ctg Leu	gat Asp	gag Glu	ggt Gly 805	Ala	atg Met	ttg Leu	ctg Leu	tac Tyr 810	Lys	acc Thr	atg Met	aca Thr	cgc Arg 815	cca Pro	2506
aaa Lys	cac His	ttc Phe	ctg Leu 820	Gln	atg Met	ttg Leu	tcg Ser	ttg Leu 825	Glu	aac Asn	tgt Cys	cgt Arg	ctt Leu 830	Thr	gaa Glu	2554
gcc Ala	agt Ser	tgo Cys	Lys	gac Asp	ctt Leu	gct Ala	gct Ala 840	a Val	ttg Leu	gtt Val	gto Val	agc Ser 845	Lys	aag Lys	ctg Leu	2602
aca Thr	cac His	: Le	g tgc ı Cys	ttg Lev	ggco Ala	aag Lys 855	Ası	c ccc n Pro	att Ile	ggs Gly	gat Asp 860	Thr	ggg	gtg Val	aag Lys	2650
ttt Phe	. Lei	g tgi ı Cy:	t gag s Glu	g ggo ı Gly	tto Lev 870	ı Ser	tac Ty	c cct r Pro	gat Asp	tgt Cys 875	Lys	a ctg s Lev	g cag i Gln	aco Thr	ttg Leu 880	2698
gtg Val	j tta Lei	a cag ı Gl	g caa n Gli	a tgo n Cys 885	s Sei	c ata	a ace	c aaq r Lys	g ctt s Let 890	ı Gly	tgt Cys	aga a Arg	tat Tyr	cto Lev	tca Ser	2746

FIG. 17D

		tgc agc ctc Cys Ser Leu 905				2794
		ttg tgg att Leu Trp Ile 920				2842
		cac cta cgg His Leu Arg 935	Leu Lys Th			2890
ttg gaa atc Leu Glu Ile 945	aag aag ctg Lys Lys Leu 950	ttg gag gaa Leu Glu Glu	gtg aaa ga Val Lys Gl 955	aa aag aat lu Lys Asn	ccc aag Pro Lys 960	2938
ctg act att Leu Thr Ile	gat tgc aat Asp Cys Asn 965	gct tcc ggg Ala Ser Gly	gca acg gc Ala Thr Al 970	ca cct ccg la Pro Pro	tgc tgt Cys Cys 975	2986
gac ttt ttt Asp Phe Phe		cct gggatcgc	tc tacgaatt	tac acaggaa	gcg	3038
agtctgtcga g	gaggtaggat t ccccttcac a	cttatgaat go tgacactgg tt tgacgctat gt aaaaaaaaa aa	ttctcact at actttctc ac	tttttggga g cagggataa t	attctgcac aaagttaga	3098 3158 3218 3263

FIG. 17E

	gaa Glu										48
	agt Ser										96
	ctt Leu 35										144
	gaa Glu										192
	aat Asn										240
	agg Arg										288
	gcc Ala										336
	ctg Leu 115										384
	gtg Val			_	 	_		Gln		_	432
	gtc Val										480
	ttg Leu										528
	gca Ala										576
 _	ttg Leu 195		_				_		_		624
	agt Ser										672

FIG. 18A

																· 一个一个
					aaa Lys 230											14
					Gly 333											768
					ttg Leu											816
					aaa Lys											864
					gaa Glu											912
tta Leu 305	tgc Cys	tgg Trp	atc Ile	acg Thr	tgt Cys 310	act Thr	gtc Val	ctg Leu	aag Lys	cgg Arg 315	cag Gln	atg Met	gac Asp	aag Lys	999 Gly 320	960
					tgc Cys											1008
					ttg Leu											1056
					cta Leu											1104
ctg Leu	ttt Phe 370	ctg Leu	agc Ser	acc Thr	ctg Leu	aat Asn 375	ttc Phe	agt Ser	ggt Gly	gaa Glu	gac Asp 380	ctc Leu	aga Arg	tgt Cys	gtt Val	1152
					gat Asp 390											1200
					cat His											1248
					aca Thr											1296
					ggc Gly											1344

FIG. 18B

															•
									ttc Phe						1392
-			_	_					tcc Ser					_	1440
					_			_	gtg Val 490						1488
									cat His						1536
					_	_	-		gtg Val	_	_		 _	_	1584
									tca Ser						1632
			_	_	_		_	_	cac His	_			_	_	1680
_	_	_	_						gag Glu 570						1728
_	_		_	_	_		_		tgg Trp	_					1776
									ctg Leu						1824
									tct Ser						1872
_	_						_	_	tcc Ser		_	_			1920
									gct Ala 650						1968
	_	_			_	_			tcc Ser			_			2016

FIG. 18C

															g page same	
ctg Leu	cat His	gac Asp 675) TTE	ctg Lev	g cac His	gag Glu	Pro 680	Thr	tgc Cys	caa Glr	ata Ile	agt Ser 685	His	ctg Lev	agc Ser	2064
ttg Leu	Met 690	: гля	tgt Cys	gat Asp	ttg Leu	cga Arg 695	Ala	ago Ser	gaa Glu	tgc Cys	gaa Glu 700	ı Glu	ato Ile	gcc Ala	tct Ser	2112
ctc Leu 705	ьeu	ato Ile	agt Ser	ggc	ggg Gly 710	Ser	ctg Leu	aga Arg	aaa Lys	ctg Leu 715	Thr	tta Leu	tcc Ser	ago Ser	aat Asn 720	2160
ccg Pro	ctg Leu	agg Arg	agc Ser	gac Asp 725	GIY	atg Met	aac Asn	ata Ile	ctg Leu 730	Cys	gat Asp	gcc Ala	ttg Leu	ctt Leu 735	cat His	2208
ccc Pro	aac Asn	tgc Cys	act Thr 740	ctt Leu	ata Ile	tca Ser	ctg Leu	gtt Val 745	ctg Leu	tct Ser	ggc Gly	tgt Cys	ttc Phe 750	ttt Phe	agc Ser	2256
agc Ser	gat Asp	atc Ile 755	tgt Cys	caa Gln	tat Tyr	att Ile	gcc Ala 760	ata Ile	gtt Val	att Ile	gct Ala	act Thr 765	aat Asn	gaa Glu	aaa Lys	2304
ctg Leu	agg Arg 770	agc Ser	ctg Leu	gag Glu	att Ile	999 Gly 775	agc Ser	aac Asn	aaa Lys	ata Ile	gaa Glu 780	gat Asp	gca Ala	gga Gly	atg Met	2352
cag Gln 785	ctg Leu	cta Leu	tgt Cys	ggt Gly	ggt Gly 790	ttg Leu	aga Arg	cat His	ccc Pro	aac Asn 795	tgc Cys	atg Met	ttg Leu	gtg Val	aat Asn 800	2400
att Ile	gjå aaa	cta Leu	gaa Glu	gag Glu 805	tgc Cys	atg Met	tta Leu	acc Thr	agt Ser 810	gcc Ala	tgc Cys	tgt Cys	cga Arg	tct Ser 815	ctt Leu	2448
gcc Ala	tct Ser	gtt Val	ctt Leu 820	acc Thr	acc Thr	aac Asn	aaa Lys	aca Thr 825	cta Leu	gaa Glu	aga Arg	ctc Leu	aac Asn 830	ttg Leu	ctt Leu	2496
caa Gln	aat Asn	cac His 835	ttg Leu	ggc Gly	aat Asn	gat Asp	gga Gly 840	gtt Val	gca Ala	aaa Lys	ctt Leu	ctt Leu 845	gag Glu	agc Ser	ttg Leu	2544
atc Ile	agc Ser 850	cca Pro	gat Asp	tgt Cys	gta Val	ctt Leu 855	aag Lys	gta Val	gtt Val	ggc Gly	ttg Leu 860	atg Met	gct Ala	gct Ala	gag Glu	2592
aac Asn 865	atg Met	gag Glu	tcc Ser	ct c Leu	att Ile 870	ccc Pro	agg Arg	cca Pro	Ala	cgc Arg 875		EIC.	S. 1	ОГ	`	2628

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